

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 November 2002 (28.11.2002)

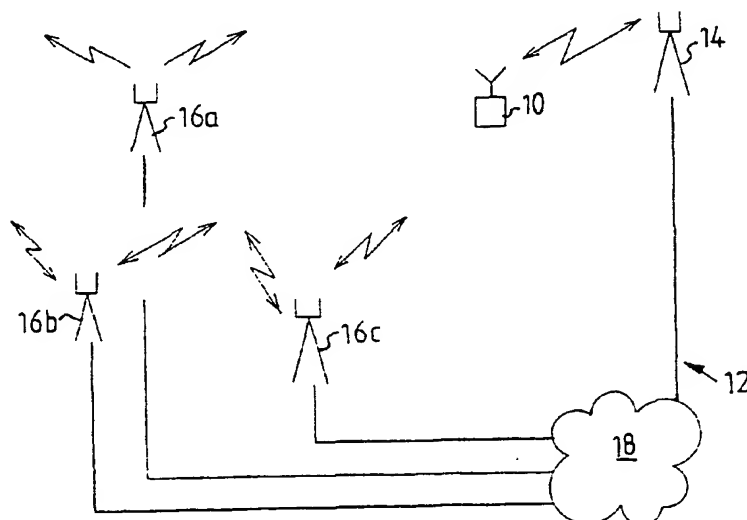
PCT

(10) International Publication Number
WO 02/096149 A1

- (51) International Patent Classification⁷: **H04Q 7/38**, 7/34, H04B 17/00, H04Q 7/22 (74) Agent: **BERGENSTRÄHLE & LINDVALL AB**; P.O.Box 17704, S-118 93 Stockholm (SE).
- (21) International Application Number: **PCT/SE02/00960** (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 17 May 2002 (17.05.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0101793-8 21 May 2001 (21.05.2001) SE
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- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
— with amended claims

[Continued on next page]

(54) Title: A METHOD AND APPARATUS FOR LINK QUALITY ESTIMATION IN A MOBILE COMMUNICATION NETWORK



(57) Abstract: A method and apparatus for link quality estimation of a potential TDMA-based wireless communication link between a mobile station (10) and a target base station (16a-c). The mobile station (10) receives a signal on a channel frequency of the target base station (16a-c) for measuring a link quality and identifying the target base station (16a-c) simultaneously based on the same received signal. The mobile station (10) qualifies the measurement if the target base station (16a-c) was identified properly. If not, the measurement is discarded. Measurements can then be tied to specific base stations more reliably, and are at the same time up to date when reported. This provides for secure connections and enables a tighter frequency reuse for enhancing the overall traffic capacity in the network.



Creation date: 10-31-2003
Indexing Officer: SGEBREHIWOT - SARA GEBREHIWOT
Team: OIPEScanning
Dossier: 10690811

Legal Date: 10-23-2003

No.	Doccode	Number of pages
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3	CLM	2
4	ABST	1
5	DRW	5

Total number of pages: 55

Remarks:

Order of re-scan issued on